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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 11/23/2009

Striker, Striker & Stenby 103 East Neck Road Huntington, NY 11743 EXAMINER KIM, JOHN K

ART UNIT PAPER NUMBER

DATE MAILED: 11/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/585,047	06/29/2006	Hans-Joachim Lutz	3780	6208	

TITLE OF INVENTION: CLAW-POLE ROTOR FOR AN ELECTRICAL MACHINE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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nonprovisional	NO	\$1510	\$300		\$0		\$1810		02/23/2010
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KIM, JO		2834	310-263000		•				
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	SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is	no lon	ger claiming SMAL	LENT	TTY status. Sec 37 Cl	FR 1.27(g	3)(2).
NOTE: The Issue Fee and interest as shown by the r	rubication Fee (if req ecords of the United Sta	uired) will not be acc ites Patent and Trade	repted from anyone othe mark Office.	r than t	ne applicant; a regis	tered a	uttorney or agent; or th	ne assigno	e or other party in
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This collection of informa an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu irginia 22313-1450. DO (3-1450.	CFR 1.311. The infor U.S.C. 122 and 37 ( USPTO. Time will rden, should be sent O NOT SEND FEES	mation is required to obt CFR 1.14. This collectic vary depending upon the to the Chief Information OR COMPLETED FOR	ain or r in is est ie indiv i Office RMS TO	etain a benefit by th imated to take 12 m idual case. Any cor r, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment fraden SENI	ic which is to file (and to complete, includir s on the amount of til ark Office, U.S. Dep D TO: Commissioner	by the Use gatherine you re artment of	ISPTO to process ng, preparing, and equire to complete of Commerce, P.O. ts, P.O. Box 1450.

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75	90 11/23/2009	EXAMINER				
Striker, Striker & Stenby			KIM, JOHN K			
103 East Neck Roa			ART UNIT	PAPER NUMBER		
Huntington, NY 11	1743		2834			
		DATE MAILED: 11/23/2009				

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 68 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 68 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Application No. Applicant(s) 10/585 047 LUTZ ET AL. Notice of Allowability Examiner Art Unit JOHN K KIM 2834 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 9/9/2009. The allowed claim(s) is/are 1 and 4-15. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some\* c) ☐ None of the: a) X All 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \( \overline{\text{ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other

JK

/Quyen Leung/ SPE. Art Unit 2834 Application/Control Number: 10/585,047 Page 2

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### DETAILED ACTION

This Office action is in response to papers filed on 9/9/2009. Amendments made
to the claims and Applicant's remarks have been entered and considered.

Claims 1 and 4-15 are allowed.

# RCE

### Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/9/2009 has been entered.

## Reason for Allowance

4. The independent claims (claims 1, 14 and 15) have been narrowed and cleared to specify every details of the invention. The applicant amended drawings to clarify interpretation of the claimed feature. Center (M) and center portion (m) of chamfer, tangential axis (T) and a half width point (P) of claw pole have been clarified both in drawing and claims.

The examiner found no prior art of claw pole rotor for alternator requiring;

- (1) a chamfer on claw pole wherein
- (2) the chamfer having a center portion (m) <u>sized 8/10 or 1/3 of chamfer length</u> where center portion is defined by intersection of a transition plane (59) <u>which</u>

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demarcates the pole root (53) and the freely projecting part of the claw pole (28 and 29), and

(3) having an <u>angle of inclination</u> a which has a magnitude of between <u>15° and</u> 25° defined by chamfer plane and tangential plane (T).

The examiner considered Frister (US 4972114), Fudono (US 5708318), Oohashi et al (US 6476535) and Ikeda et al (US 2002/0096965).

Frister teaches (in claim 8) a chamfer angle being 15-25 degrees but failed to configure the shape of the chamfer as in claimed invention.

Fudono teaches chamfer angle being 15-30 degree (Fig. 1c and claim 1) which is obvious range to the claimed invention. Fudono however teaches two chamfers which have length (L) which extends end to end of the claw pole, having a half of the length (L/2) for center, and the center is not defined by intersection of a transition plane which demarcates the pole root and the freely projecting part of the claw pole. Therefore, Fudono failed to teach to configure the chamfer having a center portion (m) sized 8/10 or 1/3 of chamfer length.

Oohashi teaches chamfers at edge but on both side of claw pole and silent to show or disclose size and angle of the chamfer.

Ikeda shows (in Fig. 19) a chamfer at one of edge on claw pole but has no an angle of inclination a which has a magnitude of between 15° and 25°, nor the chamfer having a center portion sized 8/10 or 1/3 of chamfer length where center portion is defined by intersection of a transition plane which demarcates the pole root and the freely projecting part of the claw pole.

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The examiner found no prior art satisfies all above conditions by itself or as combined

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN K. KIM whose telephone number is (571)270-5072. The fax phone number for the examiner where this application or proceeding is assigned is 571-270-6072. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quyen Leung can be reached on 571-272-8188. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Supervisory Patent Examiner, Art Unit 2834